

European Network of Transmission System Operators for Electricity

# 2013 Monitoring update of the TYNDP 2012 Table of projects

Final

1 July 2013



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## 1. Executive Summary

ENTSO-E, in line with comments received from the Agency for Cooperation of European Regulators (ACER), the European Commission and various Stakeholders, has a goal to improve transparency of the evolution of investments included in the Ten Year Network Development Plan (TYNDP).

To meet that goal, ENTSO-E publishes a monitoring update of the portfolio of pan-European significance investments included in the TYNDP 2012 report, as an interim before the next TYNDP which will be released in 2014. The report presents an overview of the evolution of the investments, including statistics, as well as an updated table of projects focused on the status, date of commissioning and additional monitoring information.

The analysis shows that a majority of them, 53%, are on-time regarding commissioning date, 27% are delayed (most of them only by 1 or 2 years). <u>Major reasons for delays are due to difficulties in gaining permits and seeking public consent necessary for building new infrastructures.</u> The analysis shows that delays concern mostly investments that are close to their commissioning date.

Long term investments that are at the early stage of the planning process have been separated in the statistics regarding modification of commissioning dates as part of a new category "*rescheduled*". Investments postponed due their external driver being delayed (e.g. connection of new RES postponed...) also fall into this category.

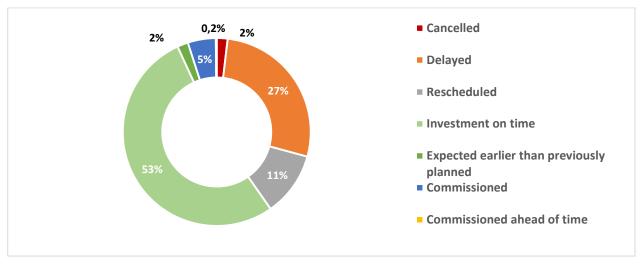


FIGURE 1 MONITORING OF TYNDP 2012 REPORT

Together with the importance of reporting the evolution of the TYNDP 2012 investments' portfolio, the next TYNDP in 2014 will contain a number of improvements. For example, the time horizon will be extended to 2030, scenarios and assessment of the projects has been built based on a set of different visions, an enhanced cost benefit analysis and an improved procedure for inclusion of non-ENTSO-E members' projects into the TYNDP 2014.



#### 2. Introduction

The European Network of Transmission System Operators for Electricity (ENTSO-E), hereby provides a 2013 update for the Table of Projects contained within the 2012 publication of the community-wide Ten Year Network Development Plan  $(TYNDP)^1$ .

The objectives of the TYNDP are to ensure transparency regarding the electricity European transmission networks and to facilitate decision making process at both regional and European levels. The TYNDP suite of documents consists of a pan-European report and six Regional Investment Plans as well as a "System Outlook and Adequacy Forecast" which aim to give a comprehensive and up-to-date European-wide reference to the anticipated development of transmission networks. Such development is a key step in achieving the European energy policy goals.

The publication of TYNDP 2012 complied with the requirements in Regulation (EU)714/2009, whereby "ENTSO-E shall adopt a non-binding Community-wide 10 year network development plan, including a European adequacy outlook, every two years". The pan-European report contained a comprehensive list of all electricity transmission projects of pan-European significance. The TYNDP 2012 package was publically consulted upon in spring 2012 to allow final publication in June 2012.

# 3. Rationale behind the publication of an intermediate report between TYNDP 2012 and 2014

After the publication of the TYNDP 2012 the Agency for Cooperation of European Regulators (ACER) published a letter outlining their opinion on the output, including recommendations for future TYNDP publications. The Agency suggested that there should be improved monitoring of investments. In particular full transparency of the evolution of investments, especially those delayed or cancelled and the reason for such changes should be stated.

Within their response ENTSO-E agreed that the monitoring of the evolution of pan-European projects is important so implementation bottleneck can be identified. Consequently, ENTSO-E committed to publish a mid-cycle update to the TYNDP 2012 table of projects, which takes the form of this report. This report includes updated information on the date of commissioning, status of the investment and the description of the investments, so as to show changes that have occurred over since publication on 5 July 2012. ENTSO-E also committed to providing more detailed information on the investments' status in the TYNDP 2014.

This Monitoring report provides transparency and detailed information so as to allow the effective tracking of the investments included in the TYNDP 2012. Without such an interim update an investment status and schedule could significantly change within the two year time period between TYNDP publications, without being visible to the interested stakeholders and decision bodies.

<sup>&</sup>lt;sup>1</sup> <u>https://www.entsoe.eu/major-projects/ten-year-network-development-plan/tyndp-2012/</u>



## 4. Methodology and Definitions

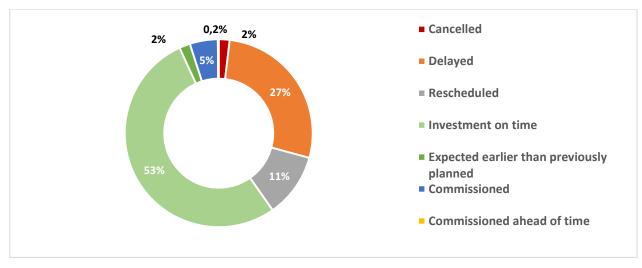
This monitoring report is an update of, and complementary to, the TYNDP 2012 and therefore the two reports should be read in conjunction with each other. An update is made of all the investments contained within the Community wide TYNDP 2012 which cover the time period 2012 to 2022. New, additional investments will not be included until TYNDP 2014 as ENTSO-E is currently in the study process. In order to focus on the key elements of data required for investment monitoring, the information on each investment is limited to:

- **TYNDP 2012 Index** A numerical reference number consistent with the TYNDP 2012
- Substations The location of the investment's substation(s) and country reference
- **Description** A text summary of the investment, including technical parameters
- **Status of the Investment** Each investment is given one of the following statuses to highlight its maturity:
  - Under Consideration
  - o Planning
  - o Design and Permitting
  - Under construction
  - o Commissioned
  - Cancelled
- **Up-to-date expected date of commissioning** In order to increase transparency, ENTSO-E strived to publish the best estimate expected commissioning date for all investments. However, for long term investments at a very preliminary stage, no accurate expected commissioning date is available as it will be assessed later as part of the feasibility studies, therefore 2030 is conventionally displayed.
- Evolution since TYNDP 2012 Within the TYNDP 2012, investments that were due to be delivered between 2017 and 2022 could be given the status "LT" (or Long Term), as there was uncertainty about when such investments would in fact be commissioned. For the purpose of this monitoring report, such an investment will be classified as being on time, except for specific cases.
- Additional Monitoring Comments A short explanation or comment, especially for investments being delayed, rescheduled or having been cancelled since TYNDP 2012.

Compared to TYNDP 2012, a higher level of detail is provided showing the evolution of the different parts of each investment when relevant. The investments already commissioned or cancelled in TYNDP 2012 are not taken into account in this update, neither in the statistics nor in the appendix 1.



## 5. Quantitative & Qualitative analysis of evolution since TYNDP 2012



The updated TYNDP Table of Projects for 2013 is shown in Annex 1 of this document.

FIGURE 2 MONITORING OF TYNDP 2012 REPORT

The Figure 2 above presents the status of the investments of pan-European significance contained in the Community wide TYNDP 2012 Table of Projects. As shown in this diagram, the majority of investments are currently on schedule for their stated delivery with less than 1% of the investments actually having been commissioned ahead of schedule. That said, around one third of investments have experienced a delay to deliver over the last year.

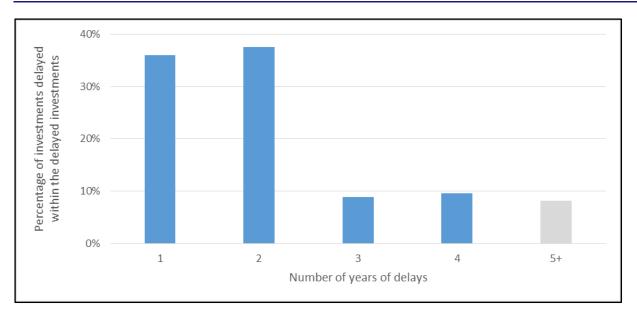
2% of the investments have been cancelled. The drivers include cases where further studies did not support the original trigger for the investment, for example, changes to plans for future generation connections.

#### **Delayed investments**

The chart below illustrates the lengths of delay to commissioning dates for the 27% of the investments that are expected to be delivered later than stated in the TYNDP 2012 report. Typically investments have been only delayed by one or two years with only 8% of delays being for five years or longer.

The majority of investments were delayed as a result of difficulties in gaining permits and seeking public consent. Other common causes for delays include securing financing or studies necessary to prepare an optimal technical design which takes longer than expected.





#### FIGURE 3 DELAYED INVESTMENTS

#### **Specific case of Spain**

Since the publication of the TYNDP 2012, the permitting situation in Spain has known significant changes, mainly due to the new national Royal Decree RDL 13/2012. This law is having an important impact in the permitting of most of the Spanish transmission projects, since the authorization processes were not enough advanced by the time of the publication of this law, they were blocked until the next National Development Plan is published.

The on-going Master Plan is expected to be approved and published by the Spanish Government in late 2014. This situation implies that many permits cannot be obtained in these 2 years period, delaying the commissioning dates of many investments by 2-3 years.

#### **Rescheduled investments**

A new category "rescheduled" is introduced in this monitoring update to highlight the uncertainty of long terms investment. In particular, investments which meet all the criteria below are displayed as rescheduled:

- To be commissioned after 2020 in the current report
- Still under consideration or planning
- Postponed

The objective is to give a more comprehensive picture of the investments 'evolution in relation to their maturity. Indeed, the status "rescheduled" corresponds to long term, or conceptual investments, at the early stage of the planning process, on which further studies have allowed the provision of more accurate date of commissioning, based for instance on a better understanding of the technical challenges or of the socio-economic environment. In addition, investments postponed due to their external driver being delayed (e.g. connection of new RES postponed...) are also reported into this category.

Most of these investments see a delay to the date of commissioning dates by longer than 3 years and are mostly related to important changes in the generation connection expectations.

# 6. Introducing TYNDP 2014

Following a consultation in spring 2014, the TYNDP 2014 package will be published during the summer. The 2014 TYNDP will contain a number of improvements over the previous 2012 publication:

- **Route to 2030**. The time horizon for the next TYNDP has been extended so as to cover the whole period between 2014 and 2030.
- Scenarios. Four visions are developed to allow analysis and assessment of projects, against a range of possible scenarios.
- **Cost Benefit Analysis**. An enhanced CBA methodology will be applied, improving the multicriteria assessment used in the TYNDP 2012.
- Enlargement to non-ENTSO-E members' projects. It is essential that all potential developers of European electricity transmission projects of pan-European significance are included in the TYNDP. Such developers could be Transmission System Operators of non-ENTSO-E countries or private promoters of transmission projects. Therefore ENTSO-E has published in January 2013 an updated procedure for the inclusion of 3<sup>rd</sup> party projects in TYNDP<sup>2</sup> in order to welcome them, account for them in the TYNDP 2014<sup>3</sup> analyses and present a CBA assessment of these projects in the report.

<sup>&</sup>lt;sup>2</sup> <u>https://www.entsoe.eu/news-events/announcements/newssingleview/article/tyndp-2014-entso-e-publishes-the-final-procedure-for-the-inclusion-of-third-party-</u>projects/?tx\_ttnews%25255BbackPid%25255D=28&cHash=ef23cefce1b5577b66f5299826cb6975

<sup>&</sup>lt;sup>3</sup> <u>https://www.entsoe.eu/major-projects/ten-year-network-development-plan/tyndp-2014/</u>